

Sequence Listing N10038PCT.ST25.txt  
SEQUENCE LISTING

<110> NOXXON Pharma AG

<120> Ghrelin binding nucleic acids

<130> N 10038 PCT

<160> 125

<170> PatentIn version 3.1

<210> 1

<211> 28

<212> PRT

<213> Rattus rattus

<400> 1

Gly Ser Ser Phe Leu Ser Pro Glu His Gln Lys Ala Gln Gln Arg Lys  
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg  
20 25

<210> 2

<211> 83

<212> RNA

<213> Artificial Sequence

<220>

<223> RNA pool

<220>

<221> misc\_feature

<222> (22)..(61)

Sequence Listing N10038PCT.ST25.txt

<223> nucleotide = a, g, c or u

<400> 2  
 ggagcucaga cuucacucgu gnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 60  
 ncacguacca cugucgguuc cac 83

<210> 3

<211> 83

<212> RNA

<213> Artificial Sequence

<220>

<223> RNA pool (reverse complementary strand)

<220>

<221> misc\_feature

<222> (23)..(62)

<223> nucleotide = a,g,c or u

<400> 3  
 guggaaccga cagugguacg ugnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 60  
 nncacgagug aagucugagc ucc 83

<210> 4

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<220>

<221> promoter

<222> (1)..(19)

<223> T7 promoter

# Sequence Listing N10038PCT.ST25.txt

<400> 4  
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<210> 5

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 5  
gtggaaccga cagtgggtacg 20

<210> 6

<211> 102

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA pool

<220>

<221> misc\_feature

<222> (41)..(80)

<223> nucleotide is a, g, c or t

<400> 6  
tctaatacga ctcactatag gagctcagac ttcactcgtg nnnnnnnnnn nnnnnnnnnn 60  
nnnnnnnnnn nnnnnnnnnn cacgtaccac tgtcggttcc ac 102

<210> 7

<211> 82

<212> RNA

<213> Artificial Sequence

Sequence Listing N10038PCT.ST25.txt

<220>

<223> Ghrelin-binding nucleic acid

<400> 7

ggagcucaga cuucacucgu gugaggcaau aaaacuuaag uccgaaggua accaauccua 60

cacguaccac ugucgguucc ac 82

<210> 8

<211> 47

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 8

cgugugagggc aauaaaacuu aaguccgaag guaaccaauc cuacacg 47

<210> 9

<211> 82

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 9

ggagcucaga cuucacucgu gugaggcagu aaaacuuaag uccgaaggua accaauccua 60

cacguaccac ugucgguucc ac 82

<210> 10

<211> 47

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

Sequence Listing N10038PCT.ST25.txt

<400> 10  
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<210> 11

<211> 82

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 11  
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cacguaccac ugucgguucc ac 82

<210> 12

<211> 47

<212> RNA

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<223> Ghrelin-binding nucleic acid

<400> 12  
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<210> 13

<211> 82

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

<400> 13  
ggagcucaga cuucacucgu gugaggcaau aaaacauaag uccgaaggua accaauccua 60

cacguaccac ugucgguucc ac 82

<210> 14

Sequence Listing N10038PCT.ST25.txt

<211> 47

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

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47

<210> 15

<211> 82

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 15

ggagcucaga cuucacucgu gugaggcaau aaaacguaag uccgaaggua accaauccua

60

cacguaccac ugucgguucc ac

82

<210> 16

<211> 47

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 16

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<210> 17

<211> 84

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

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uacacguacc acugucgguu ccac 84

<210> 18

<211> 49

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

<400> 18

cgugugaggc aauaaaacuu guaaguccga agguaaccaa uccuacacg 49

<210> 19

<211> 83

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 19

ggagcucaga cuucacucgu gugaggcaau aaaaacuuaa guccgaaggu aaccaauccu 60

acacguacca cugucgguuc cac 83

<210> 20

<211> 48

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

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<400> 20  
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<210> 21

<211> 85

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 21  
ggagcucaga cuucacucgu gcggugaggc aaaaacguaa gaccgaaggu aaccuuuccu 60

accacguac cacugucggu uccac 85

<210> 22

<211> 50

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 22  
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<210> 23

<211> 85

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 23  
ggagcucaga cuucacucgu gugagguagu aaaaaaacgu aaauccgaag guaaccaauc 60

cuacacguac cacugucggu uccac 85



Sequence Listing N10038PCT.ST25.txt

<210> 24

<211> 50

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 24

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<210> 25

<211> 88

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 25

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auccuacacg uaccacuguc gguuccac 88

<210> 26

<211> 53

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 26

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<210> 27

<211> 89

<212> RNA

<213> Artificial Sequence

Sequence Listing N10038PCT.ST25.txt

<220>

<223> Ghrelin-binding nucleic acid

<400> 27

ggagcucaga cuucacucgu gugagguagu aaaaaaaaaa acguaaaucc gaagguaacc 60

aguccuacac guaccacugu cgguuccac 89

<210> 28

<211> 54

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 28

cgugugaggu aguaaaaaaaa aaaacguaaa uccgaaggua accaguccua cacg 54

<210> 29

<211> 90

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 29

ggagcucaga cuucacucgu gugagguagu aaaaaaaaaa aacguaaauc cgaagguaac 60

caauccuaca cguaccacug ucgguuccac 90

<210> 30

<211> 55

<212> RNA

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Sequence Listing N10038PCT.ST25.txt

<223> Ghrelin-binding nucleic acid

<400> 30

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<210> 31

<211> 91

<212> RNA

<213> Artificial Sequence

<220>

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<400> 31

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ccaauccuac acguaccacu gucgguuca c 91

<210> 32

<211> 56

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

<400> 32

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<210> 33

<211> 94

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 33

ggagcucaga cuucacucgu gugagguagu aaaaaaaaaa aaaaaacaua aauccgaagg 60

uaaccaaucc uacacguacc acugucgguu ccac 94

# Sequence Listing N10038PCT.ST25.txt

<210> 34

<211> 59

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 34

cgugugaggu aguaaaaaaaa aaaaaaaaaac auaaauccga agguaaccaa uccuacacg 59

<210> 35

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> primer binding sequence

<400> 35

ggagcucaga cuucacucg 19

<210> 36

<211> 20

<212> RNA

<213> Artificial Sequence

<220>

<223> primer binding sequence

<400> 36

cguaccacug ucgguccac 20

<210> 37

<211> 47

<212> RNA

<213> Artificial Sequence

Sequence Listing N10038PCT.ST25.txt

<220>

<223> truncated B11

<400> 37

cgugugaggc aauaaaacuu aaguccgaag gaaaccaauc cuacacg

47

<210> 38

<211> 83

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 38

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60

ccacguacca cugucgguuc cac

83

<210> 39

<211> 83

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<400> 39

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60

ccacguacca cugucgguuc cac

83

<210> 40

<211> 83

<212> RNA

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<220>

<223> Ghrelin-binding nucleic acid

# Sequence Listing N10038PCT.ST25.txt

<400> 40  
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ccacguacca cugucgguuc cac 83

<210> 41

<211> 81

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

<400> 41  
ggagcucaga cuucacucgu gugagguaau aaaacuaaa cgaagguaa ccaauccuac 60  
acguaccacu gucgguucca c 81

<210> 42

<211> 83

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

<400> 42  
ggagcucaga cuucacucgu gcguaccguu auaaaggag uccugcagac ugaugccagg 60  
ccacguacca cugucgguuc cac 83

<210> 43

<211> 82

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

<400> 43  
ggagcucaga cuucacucgu gcggugaggc agacguaaga ccgaagguaa ccauuccuac 60

Sequence Listing N10038PCT.ST25.txt

cacguaccac ugucgguucc ac 82

<210> 44

<211> 82

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

<400> 44

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cacguaccac ugucgguucc ac 82

<210> 45

<211> 82

<212> RNA

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<223> Ghrelin-binding nucleic acid

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cacguaccac ugucgguucc ac 82

<210> 46

<211> 84

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

<400> 46

ggagcucaga cuucacucgu gcgugagggc aaaaacguaa gaccgaaggu aaccauuccu 60

accacguacc acugcgguu ccac 84

Sequence Listing N10038PCT.ST25.txt

<210> 47

<211> 80

<212> RNA

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<223> Ghrelin-binding nucleic acid

<400> 47

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cguaccacug ucgguuccac 80

<210> 48

<211> 81

<212> RNA

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<223> Ghrelin-binding nucleic acid

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<211> 82

<212> RNA

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<223> Ghrelin-binding nucleic acid

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aacguaccac ugucgguucc ac 82

<210> 50



Sequence Listing N10038PCT.ST25.txt

<211> 83

<212> RNA

<213> Artificial Sequence

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<223> Ghrelin-binding nucleic acid

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uaacguacca cugucgguuc cac 83

<210> 51

<211> 81

<212> RNA

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<223> Ghrelin-binding nucleic acid

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acguaccacu gucggaucca c 81

<210> 52

<211> 83

<212> RNA

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<223> Ghrelin-binding nucleic acid

<220>

<221> misc\_feature

<223> 2'-Flouro-modified pyrimidines

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ccacguacca cugucgguuc cac

83

&lt;210&gt; 53

&lt;211&gt; 82

&lt;212&gt; RNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Ghrelin-binding nucleic acid

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; 2'-Flouro-modified pyrimidines

&lt;400&gt; 53

ggagcucaga cuucacucgu ggaauaggaa ugacucagac cuuucuauag gucgccgcac

60

cacguaccac ugucgguucc ac

82

&lt;210&gt; 54

&lt;211&gt; 84

&lt;212&gt; RNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Ghrelin-binding nucleic acid

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; 2'-Flouro-modified pyrimidines

&lt;400&gt; 54

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accacguacc acugucgguu ccac

84

&lt;210&gt; 55

&lt;211&gt; 84

Sequence Listing N10038PCT.ST25.txt

<212> RNA

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<223> Ghrelin-binding nucleic acid

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<221> misc\_feature

<223> 2'-Flouro-modified pyrimidines

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accacguacc acugucgguu ccac	84

<210> 56

<211> 83

<212> RNA

<213> Artificial Sequence

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<220>

<221> misc\_feature

<223> 2'-Flouro-modified pyrimidines

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ccacguacca cugucgguuc cac	83

<210> 57

<211> 82

<212> RNA

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Sequence Listing N10038PCT.ST25.txt

<223> Ghrelin-binding nucleic acid

<220>

<221> misc\_feature

<223> 2'-Flouro-modified pyrimidines

<400> 57

ggagcucaga cuucacucgu ggaauaggaa ugacucagac cuuucuccau aggucgccac 60

cacguaccac ugucgguucc ac 82

<210> 58

<211> 84

<212> RNA

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<223> Ghrelin-binding nucleic acid

<220>

<221> misc\_feature

<223> 2'-Flouro-modified pyrimidines

<400> 58

ggagcucaga cuucacucgu ggaauaggaa ugacucagac guuucucau acgucgccgc 60

accacguacc acugucgguu ccac 84

<210> 59

<211> 82

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<223> Ghrelin-binding nucleic acid

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<221> misc\_feature

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<400> 59  
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 cacguaccac ugucgguucc ac 82

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<211> 81

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<223> 2'-Flouro-modified pyrimidines

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 acguaccacu gucggaucca c 81

<210> 61

<211> 81

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<220>

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acguaccacu gucgguucca c

81

&lt;210&gt; 62

&lt;211&gt; 80

&lt;212&gt; RNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Ghrelin-binding nucleic acid

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; 2'-Flouro-modified pyrimidines

&lt;400&gt; 62

ggagcucaga cuucacucgu ggaauaggaa ugacucagac guccauacgu cgccgcacca

60

cguaccacug ucgguuccac

80

&lt;210&gt; 63

&lt;211&gt; 85

&lt;212&gt; RNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Ghrelin-binding nucleic acid

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; 2'-Flouro-modified pyrimidines

&lt;400&gt; 63

ggagcucaga cuucacucgu ggaauaggaa ugacucagac guuuucucca uacgucgccg

60

caccacguac cacugucggu uccac

85

&lt;210&gt; 64

&lt;211&gt; 84

Sequence Listing N10038PCT.ST25.txt

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<220>

<221> misc\_feature

<223> 2'-Flouro-modified pyrimidines

<400> 64  
ggagcucaga cuucacucgu ggaauaggaa ugacucagac guuuuuccau acgucgccgc 60  
accacguacc acugucgguu ccac 84

<210> 65

<211> 82

<212> RNA

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<223> 2'-Flouro-modified pyrimidines

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ggagcucaga cuucacucgu gcgcuuucug uuagcugccg accgucagug cggcacgaga 60  
uacguaccac ugucgguucc ac 82

<210> 66

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Sequence Listing N10038PCT.ST25.txt

<223> Ghrelin-binding nucleic acid

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<223> 2'-Flouro-modified pyrimidines

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ggagcucaga cuucacucgu gcgcuuucug uuagcugcug accgucagug cggcacgaga 60

uacguaccac ugucgguucc ac 82

<210> 67

<211> 81

<212> RNA

<213> Artificial Sequence

<220>

<223> Ghrelin-binding nucleic acid

<220>

<221> misc\_feature

<223> 2'-Flouro-modified pyrimidines

<400> 67

ggagcucaga cuucacucgu gcgcuuucug uuagcuccga ccgucagugc ggcacgagau 60

acguaccacu gucgguucca c 81

<210> 68

<211> 81

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<223> 2'-Flouro-modified pyrimidines

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 acguaccacu gucggaucca c 81

<210> 69

<211> 80

<212> RNA

<213> Artificial Sequence

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<220>

<221> misc\_feature

<223> 2'-Flouro-modified pyrimidines

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 cguaccacug ucggauccac 80

<210> 70

<211> 77

<212> RNA

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<223> Ghrelin-binding nucleic acid

<220>

<221> misc\_feature

<223> 2'-Flouro-modified pyrimidines

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accacugucg guuccac

77

&lt;210&gt; 71

&lt;211&gt; 82

&lt;212&gt; RNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Ghrelin-binding nucleic acid

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; 2'-Flouro-modified pyrimidines

&lt;400&gt; 71

ggagcucaga cuucacucgu gugccgccc uauugucagg gagcuugagc cgacacugcg 60

gacguaccac ugucgguucc ac 82

&lt;210&gt; 72

&lt;211&gt; 83

&lt;212&gt; RNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Ghrelin-binding nucleic acid

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; 2'-Flouro-modified pyrimidines

&lt;400&gt; 72

ggagcucaga cuucacucgu ggaauaggaa ugacucagac guuucucaua cgucgccgca 60

ccacguacca cugucgguuc cac 83

&lt;210&gt; 73

&lt;211&gt; 83

Sequence Listing N10038PCT.ST25.txt

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cacguaccac ugucgguucc ac 82

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acguaccacu gucgguucca c 81

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cguaccacug ucgguuccac 80

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cacguaccac ugucgguucc ac

82

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&lt;211&gt; 83

&lt;212&gt; RNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Ghrelin-binding nucleic acid

&lt;220&gt;

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&lt;223&gt; 2'-Flouro-modified pyrimidines

&lt;400&gt; 80

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ccacguacca cugucgguuc cac 83

&lt;210&gt; 81

&lt;211&gt; 84

&lt;212&gt; RNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Ghrelin-binding nucleic acid

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; 2'-Flouro-modified pyrimidines

&lt;400&gt; 81

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accacguacc acugucgguu ccac 84

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<223> 2'-Flouro-modified pyrimidines

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<210> 89

<211> 43

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Sequence Listing N10038PCT.ST25.txt

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49

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43

<210> 92

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<212> RNA

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43

<210> 93

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43

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49

<210> 95

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43

<210> 96

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<212> RNA

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43

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43

<210> 99

<211> 43

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43

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<210> 102

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49

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<210> 105

<211> 49

<212> RNA

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<210> 106

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Sequence Listing N10038PCT.ST25.txt

<210> 107

<211> 49

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<210> 108

<211> 49

<212> RNA

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49

<210> 109

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49

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49

<210> 111

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49

<210> 112

<211> 49

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49

<210> 113

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<212> RNA

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<400> 113

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49



Sequence Listing N10038PCT.ST25.txt

<210> 114

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<210> 115

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<210> 116

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Sequence Listing N10038PCT.ST25.txt

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<212> RNA

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49

<210> 122

<211> 49

<212> RNA

<213> Artificial Sequence

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<400> 122

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49

<210> 123

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49

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49

<210> 125

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<223> Ghrelin-binding nucleic acid

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60